	Application No.	Applicant(s)
Notice of Allowability	10/046,463	ANDERSON ET AL.
	Examiner	Art Unit
	Michael B. Holmes	2121
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	ears on the cover sheet with the of (OR REMAINS) CLOSED in this ap or other appropriate communication IGHTS. This application is subject t	correspondence address eplication. If not included n will be mailed in due course. THIS
1. \boxtimes This communication is responsive to <u>December 23, 2004</u> .		
2. The allowed claim(s) is/are <u>1-33</u> .		
3. The drawings filed on 23 October 2001 are accepted by the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority do International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	be been received. be been received in Application No	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give	itted. Note the attached EXAMINER es reason(s) why the oath or declara	t'S AMENDMENT or NOTICE OF ation is deficient.
 CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet in the sheet	con's Patent Drawing Review (PTO s Amendment / Comment or in the (.84(c)) should be written on the drawi	Office action of ngs in the front (not the back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	sit of BIOLOGICAL MATERIAL I FOR THE DEPOSIT OF BIOLOGIC	must be submitted. Note the AL MATERIAL.
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summary Paper No./Mail Da 8), 7. ☐ Examiner's Amenda	

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UNITED STATES PATENT AND TRADEMARK OFFICE

P.O. Box 1450, Alexandria, Virginia 22313-1450 - www.uspto.gov

Examiner's Detailed Office Action

1. Applicant's arguments are persuasive. Claims 1-33 are allowed.

REASONS FOR ALLOWANCE

- 2. The following is an Examiner's statement for reasons for allowance:
- 3. The closest prior art *Hirosawa et al.* (USPN 5,995,729), *Sisk et al.* (USPN 6,366,644) and *Grimsrud* (USPN 5,726,913) do not teach or render obvious applicant's claimed invention. In particular, as pointed out below, the prior art lacks certain features and the combination as specified in the respective claims.
- 4. With regards to claim 1 *Hirosawa et al.*, *Sisk et al.*, and *Grimsrud* do not disclose ... developing a design for the system and performing an automated loop comprising implementing the design, analyzing operation of the design after said implementing, and modifying the design based on results of said analyzing.
- 5. With regards to claim 13 *Hirosawa et al.*, *Sisk et al.*, and *Grimsrud* do not disclose ... developing a design for the data storage system and performing an automated loop comprising implementing the design, analyzing operation of the design after said implementing, and modifying the design based on results of said analyzing.

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6. With regards to claim 25 Hirosawa et al., Sisk et al., and Grimsrud do not disclose ... developing a design for the data storage system, implementing the design, forming a trace of

storage system events, forming workload characterization from the trace, applying the workload

characterization to models of components of the data storage system, wherein said applying

indicates utilization of a component of the data storage system, and modifying the design in

response to the utilization indicated by said analyzing.

Correspondence Information

7. Any inquires concerning this communication or earlier communications from the

examiner should be directed to Michael B. Holmes, who may be reached Monday through

Friday, between 8:00 a.m. and 5:00 p.m. EST. or via telephone at (571) 272-3686 or facsimile

transmission (571) 273-3686 or email Michael.holmesb@uspto.gov.

If you need to send an Official facsimile transmission, please send it to (703) 746-7239.

If attempts to reach the examiner are unsuccessful the Examiner's Supervisor, Anthony

Hand-delivered responses should be delivered to the Receptionist @ (Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22313), located on the first floor of the south side of the Randolph Building.

Anthony Knight

Knight, may be reached at (571) 272-3687.

Supervisory Patent Examiner

that I for

Group 3600

Michael B. Holmes

Patent Examiner
Artificial Intelligence

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United States Department of Commerce Patent & Trademark Office Application/Control Number: 10/046,463

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Friday, March 11, 2005

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